PATENT COOPERATION TREATY

PCT

REC'D 3 0 MAY 2006

INTERNATIONAL PRELIMINARY REPORT ON PATERIABILITY PCT

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0459PCT	FOR FURTHER	FOR FURTHER ACTION See Form PCT/IPEA/416			
International application No. PCT/JP2005/004587	International filing of 09.03.2005	ate (day/month/year)	Priority date (day/month/year) 11.03.2004		
International Patent Classification INV. F16H61/00	n (IPC) or national classification a	nd IPC			
Applicant TOYOTA JIDOSHA KABU	JSHIKI KAISHA ET AL				
This report is the intern Authority under Article	ational preliminary examinatio 35 and transmitted to the appl	n report, established by th cant according to Article 3	is International Preliminary Examining 6.		
2. This REPORT consists of a total of 5 sheets, including this cover sheet.					
3. This report is also accompanied by ANNEXES, comprising:					
a. \square sent to the applicant and to the International Bureau) a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this repor and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
l sequence listing	rnational Bureau only) a total of and/or tables related thereto, uence Listing (see Section 802	in electronic form only as	er of electronic carrier(s)) , containing a indicated in the Supplemental Box ructions).		
4. This report contains ind	ications relating to the followin	g items:			
! ☑ Box No. I Basis	of the report				
☐ Box No. II Priori					
	•	egard to novelty inventive	step and industrial applicability		
	of unity of invention	gara to novolty, investing	step and industrial applicability		
🖾 Box No. V Reaso	oned statement under Article 3 ability; citations and explanation	5(2) with regard to novelty	r, inventive step or industrial nent		
☐ Box No. VI Certa	in documents cited				
☐ Box No. VII Certa	in defects in the international a	pplication			
☐ Box No. VIII Certa	n observations on the internat	ional application			
Date of submission of the deman	d	Date of completion of thi			
Date of Submission of the deman	u	Date of completion of thi	s report		
15.09.2005		29.05.2006	29.05.2006		
Name and mailing address of the preliminary examining authority:	international Office - P.B. 5818 Patentlaan 2	Authorized officer	Structure Patenten,		
NL-2280 HV Rijswi	jk - Pays Bas	Zevelakis, N	· · · · · · · · · · · · · · · · · · ·		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2005/004587

	Во	x No. I	Basis of the report		
1.	Wit	With regard to the language, this report is based on			
	\boxtimes	the int	ernational application in the language in which it was filed		
		a trans	slation of the international application into , which is the language anslation furnished for the purposes of:		
 ☐ international search (under Rules 12.3(a) and 23.1(b)) ☐ publication of the international application (under Rule 12.4(a)) ☐ international preliminary examination (under Rules 55.2(a) and/or 55.3(a)) 					
have been furnished t			d to the elements * of the international application, this report is based on <i>(replacement sheets whic</i> furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):		
	Des	scription	n, Pages		
1-51		1	as originally filed		
	Cla	ims, Nu	mbers		
1-28		8	as originally filed		
	Dra	ıwings, S	Sheets		
1/12-12/12		2-12/12	as originally filed		
		a sequ	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing		
з.		The ar	mendments have resulted in the cancellation of:		
			e description, pages e claims, Nos.		
			drawings, sheets/figs sequence listing <i>(specify)</i> :		
			y table(s) related to sequence listing (specify):		
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
			e description, pages e claims, Nos.		
			drawings, sheets/figs sequence listing <i>(specify)</i> :		
			y table(s) related to sequence listing (specify):		
	*	If it	em 4 applies, some or all of these sheets may be marked "superseded."		

INTERNATIONAL PRELIMINARY REPORT **ON PATENTABILITY**

International application No. PCT/JP2005/004587

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2-28

No:

Claims

Inventive step (IS)

Yes: Claims

4-6,8,9,12,21-28

No:

Claims

1-3,7,10,11,13-20

Industrial applicability (IA)

Yes: Claims

1-28

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

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Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement.

1. As seen in D1 the first and second rotary members are connected to each other in a power transmittable manner. It seems that due to the wording the applicant has chosen to formulate the features of his invention, the features of claim 1 can be seen to be disclosed by D1 even if the ways the systems according to D1 and the invention are operating are different, for example in D1, the power transmission may not always be achieved by the fluidic energy of operating oil as it is discharged from the oil pump, unless the rotary members constituting the constant displacement hydraulic pump rotate relatively with each other (a condition that would seem to render a corresponding claim as not novel).

A possible remedy to overcome the above objections would have been to include features of the claims concerning the way the transmission system works as at present claimed in further dependent claims (see paragraph 3.2).

2.1 INDEPENDENT CLAIM 1

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because document D1 discloses a power transmission system comprising the features of claim 1 and thus the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.
- 2.2 Additionally, the present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 does not involve an inventive step in the sense of Article 33(3) PCT.
 - Based in the fact that it is widely known (as also shown in D1) in the state of the art to use a hydraulic pump/motor arrangement as a torque transmitting system and even as a lock-up clutch, consideration should be taken that even a torque converter could be regarded as fitting the words of claim 1.
 - Document D2 shows a torque converter which can be seen to constitute a power transmission according to claim 1.
 - Although not explicitly formulated, the teaching of this document effectively would

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

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seem shows what the applicant has chosen to formulate using the terms in independent claim 1.

Therefore, the subject matter of claim 1 is disclosed in document D1 so that it lacks novelty, or concerns one of many alternative ways to connect the engine to a "CVT" transmission thereby lacks an inventive step (see for example D2).

3. DEPENDENT CLAIMS 2-28

- 3.1 Dependent claims 2,3,7,10,11,13-20 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1-D3 and the corresponding passages cited in the search report.
 - Claim 2 merely concerns a choice on the pump type and the relevant geometry (pumps like these are widely known in the state of the art see for example D3). Claim 3 is disclosed by D1.
 - Claim 7 introduces a planetary gear set which is widely known in the state of the art to be used in all transmissions .
 - Claims 10,11 and 13-20 concern different details in the construction and geometry of power transmission like for example forward/reverse mechanism, inter- connections and prime mover choices. These choices cannot be considered as supporting an inventive step in their subject matter.
- 3.2 The combination of the features of dependent claims 4-6,8,9,12,21-28 are neither known from, nor rendered obvious by, the available prior art.